L 46668-65 EWT(m)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6009517 (N) SOURCE CODE: UR/0226/65/000/011/0062/0065

AUTHOR: Kuz'ma, Yu. B.; Fedorov, T. F. 54 B

ORG: L'vov State University im. I. Franko (L'vovskiy ordena Lenina gosuniversitet im. I. Franko); Institute of Metallurgy im. A. A. Baykov (Institut metallurgii im. A. A. Baykova)

TITLE: Phase equilibria in the molybdenum-chromium-carbon system

SOURCE: Poroshkovaya metallurgiya, no. 11, 1965, 62-65

TOPIC TAGS: phase composition, ternary alloy, molybdenum, chromium, carbon, powder metal

ABSTRACT: Mixtures of the powders of Cr, Mo and spectrally pure graphite were sintered into rods weighing 20 g each which were then twice melted in an arc furnace. After this, the alloys of the compositions shown in Fig. 1 were investigated by methods of x-ray structural and metallographic analysis of cast, annealed and quenched (from 1350°C) specimens. The x-ray phase analysis of the non-heat-treated specimens established the presence in the alloys containing 20-50 at. % Mo, 20-4 at. % Cr and 60-46 at. % C of a phase (the ω-phase) with a cubic face-centered structure of the NaCl type (a = 4.24-4.27 Å). The carbide Mo_2C dissolves to

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L 46668-65

ACC NR: AP6009577

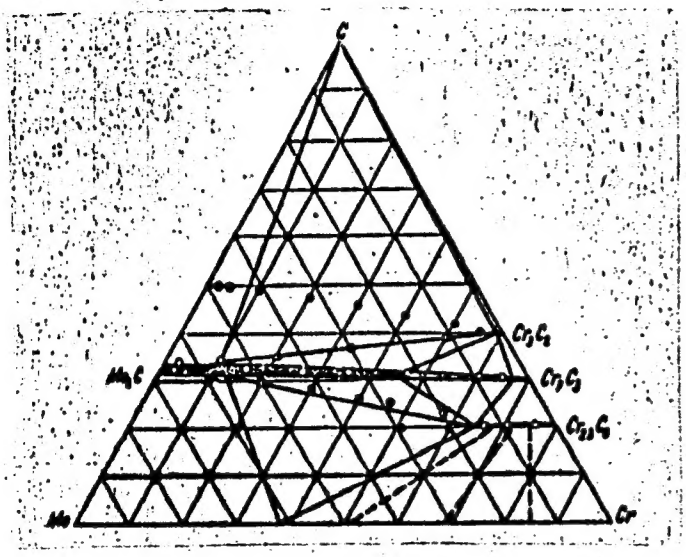

Fig. 1. Isothermic cross section of the Mo-Cr-C system at 1350°C:

○ - homogeneous alloys;
◑ - two-phase; ● - three-phase;
---- direction of tie lines

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L 46668-66

ACC NR: AP6009577

46 at.% Cr, and the carbide $Cr_{23}C_6$, to 15 at.% Mo. On dissolution in the carbide $Cr_{23}C_6$ the Mo atoms display an ordered distribution. The ω-phase is in an equilibrium with the solid solution of Cr in Mo_2Cr, the high-temperature hexagonal carbide Mo_3C_2 and the chromium carbides Cr_3C_2 and Cr_7C_3. Orig. art. has: 3 figures.

SUB CODE: 11,20 / SUBM DATE: 24Jan65/ ORIG REF: 001/ OTH REF: 003

Card 3/3 hs

(A) L 13268-66 EWT(m)/EPF(n)-2/EWP(j)/T/EWP(t)/EWP(b)/EWA(c)/ETC(m)
IJP(c) DS/JW/WW/JG/
ACC NR: AP6001476 SOURCE CODE: UR/0226/65/000/012/0063/0068
NM

AUTHOR: Fedorov, T. F.; Kuz'ma, Yu. B.; Skolozdra, R. V.; Popova, N. M.

ORG: L'vov State University (L'vovskiy gosuniversitet im. I. Franko); A. A. Baykov Institute of Metallurgy (Institut metallurgii im. A. A. Baykova)

TITLE: Phase equilibria in the ternary systems Zr-Co-C and Nb-Fe-C

SOURCE: Poroshkovaya metallurgiya, no. 12, 1965, 63-68

TOPIC TAGS: phase equilibrium, ternary alloy, zirconium, cobalt, carbon, niobium, iron, X RAY ANALYSIS, TERNARY ALLOY

ABSTRACT: Specimens of the investigated alloys of the Zr-Co-C and Nb-Fe-C systems annealed at 800 and 1050°C, respectively, were examined by means of X-ray and microscopic analyses. The phase equilibria of these systems, as established by phase analysis, are shown in Figs. 1 and 2, respectively. ZrC is in an equilibrium with all the compounds of the Zr-Co system as well as with Co and Zr. For the alloys located in two-phase and three-phase regions the lattice constants of binary compounds do not change, which indicates an insignificant solubility of Co in ZrC and of C in binary compounds of the system Zr-Co. X-ray structural and microscopic analyses of 42 alloys revealed no ternary compounds in the Nb-Fe-C system. NbC at 1050°C is in an equilibrium with the phase $NbFe_2$, the μ-phase, α-Fe and Nb_2C, while the carbide Nb_2C is in

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L 13268-66

ACC NR: AP6001476

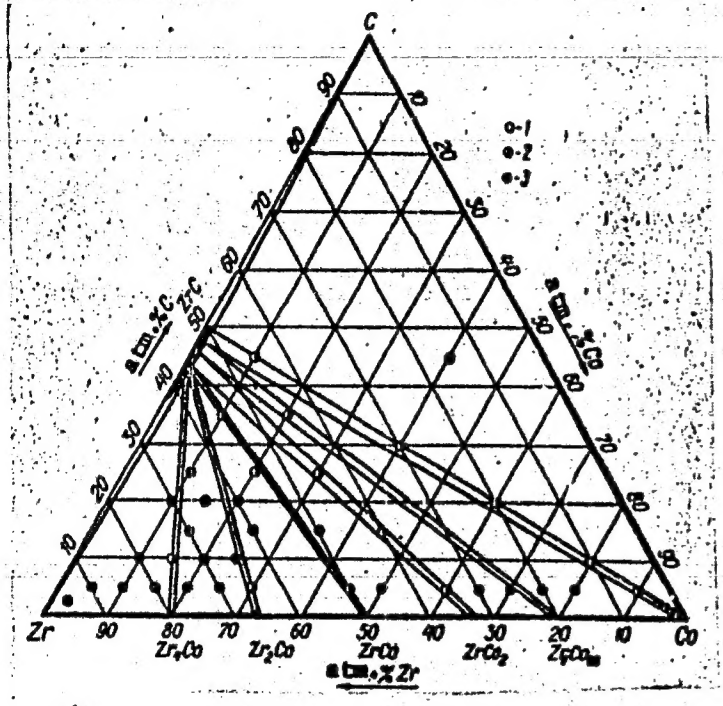

Fig. 1. Phase equilibria in the system Zr--Co-C at 800°C:

1 - single-phase; 2 - two--phase; 3 - three-phase

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L 13268-66
ACC NR: AP6001476

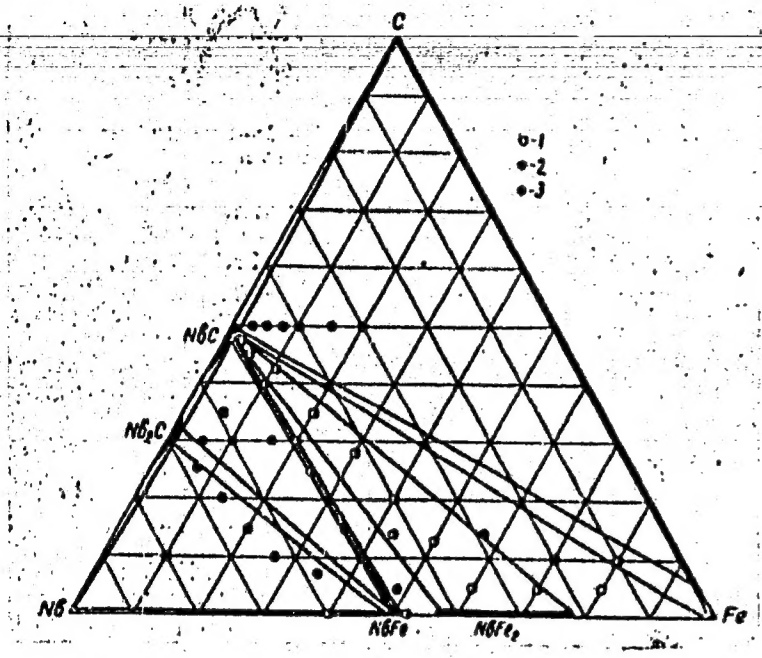

Fig. 2. Phase equilibria in the system Nb-Fe-C at 1050°C

1 - single-phase; 2 - two--phase; 3 - three-phase

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L 13268-66

ACC NR: AP6001476

equilibrium with Nb and μ-phase. No traces of Nb_3C_2 could be discovered. The absence of σ- and η-phases in alloys of the Nb-Fe-C system proves the invalidity of Goldschmidt's (H. Goldschmidt, J. Iron Steel Inst., 194, 2, 159, 1960) phase diagram of the Nb-Fe system. Orig. art. has: 4 figures.

SUB CODE: 11, 20/ SUBM DATE: 29Mar65/ ORIG REF: 007/ OTH REF: 013

Card 4/4

ACC NR: AP6011349 SOURCE CODE: UR/0226/66/000/003/0075/0077

AUTHOR: Gorshkova, L. V.; Fedorov, T. F.; Kuz'ma, Yu. B.

ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii); L'vov State University im. I. Franko (L'vovskiy gosudarstvennyy universitet)

TITLE: Rhenium-chromium-carbon system

SOURCE: Poroshkovaya metallurgiya, no. 3, 1966, 75-77

TOPIC TAGS: alloy, ternary alloy, rhenium alloy, chromium containing alloy, carbon containing alloy

ABSTRACT: A series of alloys of the Re-Cr-C system has been investigated and the isothermal section of the ternary diagram of the system at 1300C has been plotted (see Fig. 1). Alloys were melted from 99.96%-pure rhenium, 99.97%-pure chromium, and spectrographically pure graphite powders. It was found that $Cr_{23}C_6$ chromium carbide, formed at 1518C, dissolves up to 20 at% Re. The solubility of rhenium in other chromium carbides (Cr_7C_3 and Cr_3C_2) and that of carbon in the σ-phase of the Re-Cr system is insignificant. The solubility of chromium and carbon in ternary rhenium-base solid solution is not higher than that of these components in binary systems Re-Cr and Re-C.

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ACC NR: AP6011349

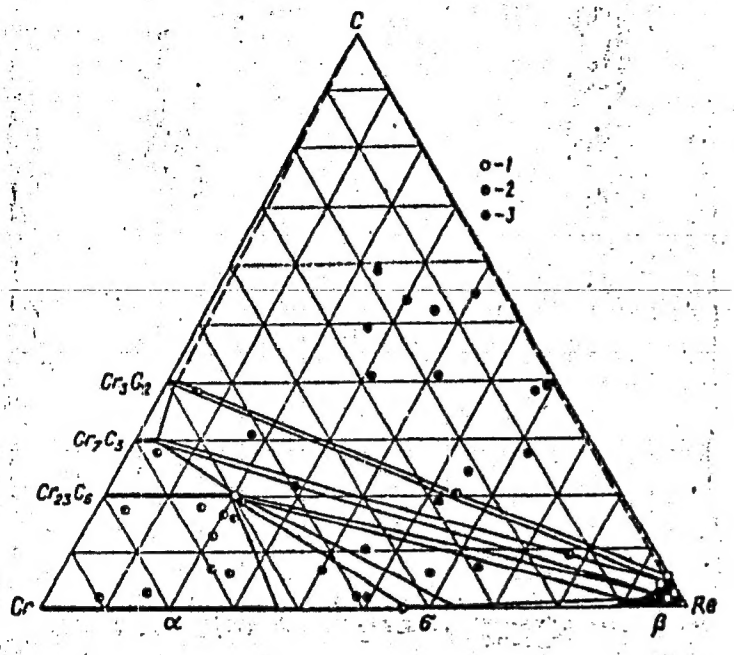

Fig. 1. Equilateral triangle of the Re-Cr-C system at 1300C

1 - Single-phase alloy;
2 - binary alloy;
3 - ternary alloy

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ACC NR: AP6011349

No ternary compounds in the Re-Cr-C system were found. The solubility of transition metal in $Cr_{23}C_6$ in the Re-Cr-C, Mo-Cr-C, and W-Cr-C systems is generally high. However, the Re solubility (~20 at% Re) is considerably higher than that of Mo and W (~15 at%). This can be attributed to the smaller atomic radius of Re (1.37 Å) as compared to that of Mo or W (1.39 and 1.40 Å). In all these systems, the ordering of Mo, W, or Re atoms in $Cr_{23}C_6$-base solid solution is observed. As a result, a superstructure of the $W_2Cr_{21}C_6$ type is formed. The authors express their thanks to Ye. I. Gladyshevskiy for his advice. Orig. art. has: 2 figures. [ND]

SUB CODE: 13, 11/ SUBM DATE: 16Jun65/ ORIG REF: 004/ OTH REF: 005
ATD PRESS: 4234

Card 3/3

L 23585-66 EWT(m)/EWP(e)/T/EWP(t) IJP(c) JD/JG

ACC NR: AP6012772 SOURCE CODE: UR/0226/66/000/004/0055/0060

AUTHOR: Gladyshevskiy, Ye. I.; Fedorov, T. F.; Kuz'ma, Yu. B.; Skolozdra, R. V. 38 B

ORG: Lvov Order of Lenin State University im. Iv. Franko (L'vovskiy ordena Lenina gosuniversitet); Institute of Metallurgy im. A. A. Baykov (Institut metallurgii)

TITLE: The system molybdenum-iron-boron

SOURCE: Poroshkovaya metallurgiya, no. 4, 1966, 55-60

TOPIC TAGS: molybdenum compound, boron compound, ternary compound, isothermal cross section

ABSTRACT: The system Mo-Fe-B has been investigated by x-ray and microscopic analyses, and its isothermal cross section is given. The phase equilibria were established at 1000C. The ternary compound Mo_2FeBe_2 was found to exist in the range 20--28 at % Fe, with a U_3Si_2-type superstructure (a = 5.807 -- 5.729 ± 0.004 Å, c = 3.142 -- 3.151 ± 0.003 Å). The ternary compound (Mo, Fe)B has a CrB-type structure (the lattice constants are similar to those of the high-temperature modification of MoB). The compound $MoFe_2B_4$ has a Ta_3B_4-type superstructure (a = 3.128

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L 23585-66

ACC NR: AP6012772

± 0.005 Å , b = 12.70 ± 0.01 Å, c = 2.984 ± 0.005 Å). Iron was found to have a stabilizing effect on the high-temperature modification of MoB. Orig. art. has: 3 figures and 3 tables. [Based on author's abstract] [AM]

SUB CODE: 11, 07/ SUBM DATE: 05May65/ ORIG REF: 002/ OTH REF: 004

Card 2/2 PB

L 07384-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JG
ACC NR: AP6027749 SOURCE CODE: UR/0370/66/000/004/0128/0131

AUTHOR: Fedorov, T. F. (Moscow, L'vov); Gorshkova, L. V. (Moscow, L'vov); Gladyshevskiy, Ye. I. (Moscow, L'vov)

32
B

ORG: None

TITLE: The ternary system Ti-V-C

SOURCE: AN SSSR. Izvestiya. Metally, no. 4, 1966, 128-131

TOPIC TAGS: phase equilibrium, phase diagram, titanium alloy, vanadium alloy, solid solution, carbide, ternary alloy

ABSTRACT: The authors study the diagram for phase equilibria in the Ti-V-C system. The initial materials for preparation of the alloys were powdered titanium (99.8% Ti), vanadium (99.5% V) and lamp black (99.5% C). The powder alloys were remelted in an arc furnace with a tungsten electrode on a copper hearth in an inert gas atmosphere. Sintering was done in a vacuum resistance furnace with a graphite heater. The specimens were then heat treated in the same furnace at 2000°C with a gradual reduction in temperature to 1400°C. The resultant alloys were annealed for 300 hours at 1000°C in evacuated quartz ampules and quenched by immersion of the ampules in water. The alloys were studied by microstructural and x-ray analysis. The resultant phase diagram at 1000°C is shown in the figure. The experimental data confirm the existence of a continuous series of solid solutions between the compounds TiC and VC with a linear change in the lattice period at the carbon-rich boundary of the solid solution. No ternary

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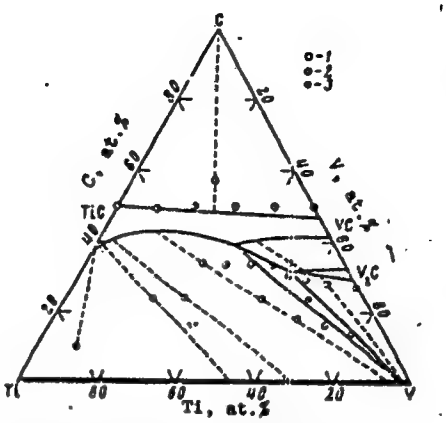
L 07384-67
ACC NR: AP6027749

compounds were observed. Measurement of the lattice periods in the space of the elementary cell of V_2C carbide in alloys lying close to the region of homogeniety showed that this compound dissolves approximately 14 at.% Ti at the given temperature. The lattice periods of the solid solution based on V_2C in alloys of the three-phase region $MeC+Me_2C+Me$ are a=2.91±0.01 A and c=4.63±0.01 A. The tie lines in the two-phase region MeC+Me connect the vanadium-rich metal phase with the titanium-rich carbide phase. No alloys were observed in the V_3C_2 region. The given ternary system is similar to the previously studied Ti-Nb-C and Ti-Ta-C systems, differing from them in the high solubility of Ti in V_2C. Orig. art. has: 3 figures.



Phase equilibria of the Ti-V-C system at 1000°C; alloys: 1--single-phase, 2--two-phase, 3--three-phase. Broken lines indicate tie lines.

SUB CODE: 11/ SUBM DATE: 17Mar64/ ORIG REF: 009/ OTH REF: 014

Card 2/2 LS

ACC NR: AT7004210 (A) SOURCE CODE: UR/0000/66/000/000/0127/0135

AUTHORS: Fedorov, T. F.; Gladyshevskiy, Ye. I.; Popova, N. M.

ORG: none

TITLE: Investigation of the system niobium-zirconium-hafnium-carbon

SOURCE: AN SSSR. Institut metallurgii. Eksperimental'naya tekhnika i metody vysokotemperaturnykh izmereniy (Experimental techniques and methods of high temperature measurement). Moscow, Izd-vo Nauka, 1966, 127-135

TOPIC TAGS: phase diagram, alloy phase diagram, phase equilibrium, metal phase system, niobium, zirconium, hafnium, carbon

ABSTRACT: The phase relationships in the system Nb-Zr-Hf-C were investigated. This study supplements the results of I. I. Kornilov (Fiziko-khimicheskiye osnovy zharoprochnosti splavov. Izd-vo AN SSSR, 1961, str. 510). Phase diagrams based on x-ray and metallographic data are presented (see Fig. 1). The phase composition of the ternary systems Zr-Nb-C and of the binary system ZrC-HfC, were determined. The results are tabulated. It was found that binary carbide formation did not take place in the ternary system. Similarly, no evidence for the existence of ternary

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ACC NR: AT7004210

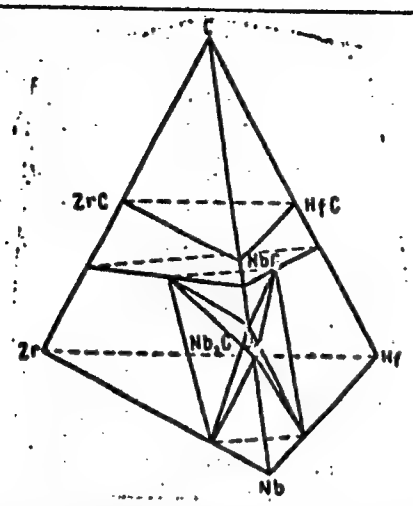


Fig. 1. Phase diagram for the system Zr-Nb-Hf-C at approximately 1700C

carbides was found in the quaternary system. Orig. art. has: 4 tables and 3 graphs.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 006

Card 2/2

ACC NR: AP6036446 SOURCE CODE: UR/0370/66/000/006/0134/0136

AUTHORS: Fedorov, T. F. (Moscow, L'vov); Gladyshevskiy, Ye. I. (Moscow, L'vov); Gorshkova, L. V. (Moscow, L'vov)

ORG: none

TITLE: Phase equilibria in the ternary system Hf-Re-C

SOURCE: AN SSSR. Izvestiya. Metally, no. 6, 1966, 134-136

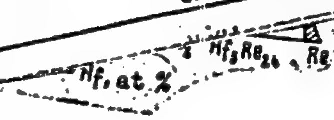
TOPIC TAGS: hafnium, rhenium, carbon, alloy phase diagram, x ray analysis

ABSTRACT: The phase diagram of the ternary system Hf-Re-C at 1500C was determined. The phase composition was studied by x-ray and microstructural analyses, and the experimental results are summarized in graphs and tables (see Fig. 1). It is concluded that the ternary system Hf-Re-C differs from other Me-Re-C systems described by L. K. Borusevich and Ye. I Gladyshevskiy (Rentgenostrukturnoye issledovaniye splavov sistemy Mo-Re-C. Poroshkovaya metallurgiya, 1964, No. 6, 22) by the absence of complete solid solution series between HfC and ReC.

UDC: 669.297.5'849'784

Orig.

SUB C01



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REF: 004/ OTH REF: 003

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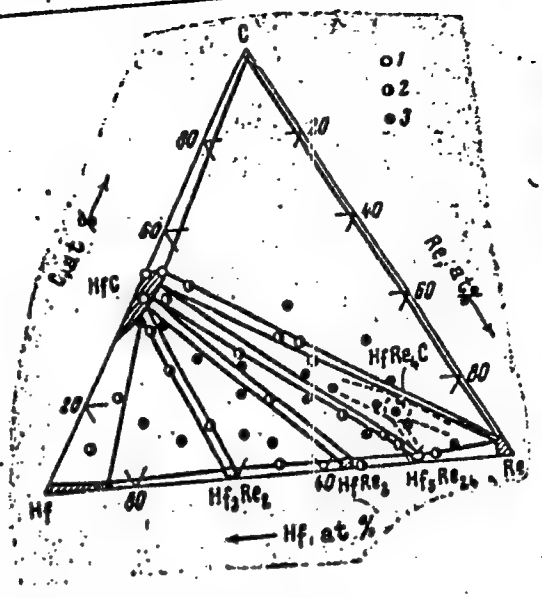
APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R00041263

ACC NR: AP6036446

Fig. 1. Phase diagram of the ternary system Hf-Re-C at 1500C. 1 - one-phase alloy, 2 - two-phase alloy, 3 - three-phase alloy



Orig. art. has: 1 table and 2 graphs.

SUB CODE: 11/ SUBM DATE: 22Jan65/ ORIG REF: 004/ OTH REF: 003

Card 2/2

FEDOROV, T.K. (Rostov-na-Donu)

Rubber is a substitute for metal in sanitary engineering. Vod.i san.tekh. no.2:30-31 F '63. (MIRA 16:2)
(Pipe, Rubber) (Plumbing)

FEDOROV, T.O.

Lower Cretaceous ignimbrites in the upper part of the middle Amur Basin. Trudy Lab. vulk. no.20:132-135 '61. (MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet.
(Amur Province—Volcanic ash, tuff, etc.)

FEDOROV, T.O.

Magmatic activity in the upper Amur Valley. Biul.MOIP.Otd.geol. 36 no.6:101 N-D '61. (MIRA 15:7)
(Amur Valley--Geology, Structural)

BABICHEV, Ye.A.; BUROVA, N.N.; GOLODKOVSKAYA, G.A.; DOBRUSKINA, I.A.; KAGNER, M.N.; KONOPLEVA, V.I.; KRASILOVA, N.S.; LEONOV, G.P.; MURZAYEVA, V.E.; PODRABINEK, R.A.; PRYAKHIN, A.I.; RUZHOV, B.V.; SERGEYEV, Ye.M.; FEDOROV, T.O.; FIDELLI, I.F.; EPSHTEYN, G.M.[deceased]; SHCHEKHURA, I.I., red.; GEORGIYEVA, G.I., tekhn. red.

[Geology and engineering geology of the upper Amur Valley]Geologicheskoe stroenie i inzhenerno-geologicheskaia kharakteristika doliny Verkhnego Amura. Moskva, Izd-vo Mosk. univ., 1962. 317 p. (MIRA 16:3)
(Amur Valley--Geology)
(Amur Valley--Engineering geology)

FEDOROV, T.O.

Upper Paleozoic ignimbrites in Karkaralinsk District (central Kazakhstan) and their genesis. Trudy Lab. paleovulk. Kazakh. gos. un. no.56:128-137 '63. (MIRA 16:6)

1. Moskovskiy gosudarstvennyy universitet.
(Karakaralinsk District—Ignimbrites)

FEDOROV, T.O.

Volcano-tectonic depression in the northern part of the marginal volcanic belt of the Devonian of central Kazakhstan. Dokl. AN SSSR 165 no.3:657-659 N '65. (MIRA 18:11)

1. Moskovskiy gosudarstvennyy universitet. Submitted June 18, 1965.

FEDOROV, U.N.

362 Proizvodstvo i remont shtampov i prisposobleniy. (Uchebniic dlya remesl. uchilishch). M., trudrezervizdar, 1954. 216s. s ill. 23sm. (glav. upr. trud. rezervov pri sovete ministrov SSSR). 15.000 ekz. 4r. 10k. V per.-(54-54726) p 621.961.002 & 621.91-2.002

SO: Knizhaya, Letopis, Vol. 1, 1955

FEDOROV, V., kand.tekhn.nauk

Physical bases of the aerodynamics of high subsonic speeds.
Grazhd. av. 12 no.11:15-18 N '55. (MIRA 15:9)
(Aerodynamics)

FEDOROV, V.; KOSICHKINA, V.; KHOLOMINA, O.

Scientific and technological conference at the Moscow Institute of Engineering Economics. Vop.ekon. no.5:156-159 My '56. (MLRA 9:8)

(Precast concrete construction) (Machinery industry) (Electric power)

FEDOROV, V.; DMITRIYEV, G.

Our planning methods. Izobr.i rats. no.6:29 Je '59.
(MIRA 12:9)

1. Predsedatel' soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov Moskovskogo elektrolampovogo zavoda (for Fedorov). 2. Nachal'nik Byuro sodeystviya ratsionalizatsii i izobretatel'stvu Moskovskogo elektrolampovogo zavoda (for Fedorov).
(Moscow--Electric lamps)

FEDOROV, V.

The trip of a vessel with emergency steering gear. Mor. flot 7 no.4:34-35 Ap '47. (MLRA 9:6)

1.Zamestitel' nachal'nika Pribaltiyskoy inspektsii Morskogo Registra SSSR.

(Steering gear)

PHASE I BOOK EXPLOITATION SOV/4234

Fedorov, V.

Pyatnadtsat' dney v Zheneve; Vtoraya mezhdunarodnaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Sentyabr' 1958 (Fifteen Days in Geneva; Second International Conference on the Peaceful Use of Atomic Energy, September 1958) Moscow, Atomizdat, 1960. 76 p. Errata slip inserted. 5,000 copies printed.

Ed.: M.A. Saguro; Tech. Ed.: S.M. Popova.

PURPOSE: This book is intended for the general reader.

COVERAGE: This is an account, in popular terms, of the Second International Conference on the Peaceful Use of Atomic Energy, which took place in Geneva in September 1958. The author provides general information relating to the names of the participating countries, the number of participants, a description of the conference headquarters, the number of reports made, etc. He discusses the nature and objectives of the Conference, the basic principles of thermonuclear reactions, nuclear energetics, and the various exhibits of equipment presented by the participating countries, especially the Soviet, American, British, and French nuclear reactors, with markedly extensive coverage of the

Card 1/2

Fifteen Days in Geneva (Cont.) SOV/4234

American equipment. An outline of the proposed programs of construction of atomic power stations in the near future by the USA, Britain, France, and the USSR is given. The following Soviet scientists are mentioned: V.S. Yemel'yanov, N.A. Dollezhal', I.V. Kurchatov, and A.K. Krasnov. There are no references.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress (TK 9006.F4)

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JA/wrc/sfm
10/4/60

FEDOROV, V., kand.tekhn.nauk

Urgent tasks in waterway exploitation research. Mech. transp. 21 no.5:35-36 My '62. (MIRA 15:5)
(Water resources development)

FEDOROV, V., kand.khimicheskikh nauk; SEMENOV, Ye.

Toxic chemical agents of the United States Army (as revealed by foreign press data). Voen. vest. 42 no.6:121-123 Je '62. (MIRA 15:6)

(United States—Chemical warfare)

FEDOROV, V., kand.istoricheskikh nauk

New phase of national liberation struggle in Africa. Komm.Vooruzh.-Sil 2 no.3:81-86 F '62. (MIRA 15:1)
(Africa--Politics and government)

MEL'NIKOV, S., inzh. (Tashkent); PETROVA, L., inzh. (Novosibirsk); FADEYEV, A.; ANTONOV, A.; SHTURMAN, G., doktor tekhn. nauk, prof. (Riga); MEL'NIK, V., inzh. (Riga); FEDOROV, V., inzh. (Tbilisi)

Ready to shape. Grazhd. av. 20 no.10:22-23 O '63. (MIRA 16:12)

1. Predsedatel' komissii partgoskontrolya pri Tyumenskoy aviagruppe Ural'skogo territorial'nogo upravleniya Aeroflota (for Fadeyev).

3(4)

AUTHOR: Fedorov, V. A.

SOV/6-59-11-10/21

TITLE: Results of the Experimental Work in a Stereotopographic Surveying on a Scale of 1 : 25,000 on an SPR-2 Stereo-projector

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 11, pp 27 - 28 (USSR)

ABSTRACT: Experiments were carried out in the stereotopographic workshop of the Novosibirskoye AGP (Novosibirsk Aerogeodetic Enterprise) at the end of 1958. It was attempted to complete the positional and height-net by photogrammetric experiments to reproduce the relief stereoscopically and to compile the original chart on a scale of 1 : 25,000 on an SPR-2 stereo-projector. The experiments were carried out by Engineer A. G. Kriventsova and are briefly described here.

Card 1/1

IL'IN, Vitaliy Alekseyevich; FEDOROV, V.A., inzh., retsenzent; VLACHESLAVOV, P.M., dots., kand. khim. nauk, red.; GRILIKHES, S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; SHKONOVSKIY, M.Z., red. izd-va; SOKOLOVA, L.V., tekhn. red.

[Zinc and cadmium plating] TSinkovanie i kadmirovanie. Pod obshchei red. P.M. Viacheslavova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 44 p. (Bibliotechka gal'vanotekhnika, no.3). (Zinc plating) (Cadmium plating) (MIRA 11:10)

IL'IN, Vitaliy Alekseyevich; FEDOROV, V.A., inzh., retsenzent; VYACHESLAVOV, P.M., dots., kand. khim. nauk, red.; GRILIKHES, S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; SIMONOVSKIY, N.Z., red. izd-va; SOKOLOVA, L.V., tekhn. red.

[Tin and lead plating] Luzhenie i svintsevanie. Pod obshchei red. P.M. Viacheslavova. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 31 p. (Bibliotechka gal'vanotekhnika, no.4). (Tin plating) (Lead plating) (MIRA 11:9)

ACCESSION NR: AP4006840 S/0120/63/000/006/0175/0175

AUTHOR: Fedorov, V. A.; Doroshenko, G. G.; Filyushkin, I. V.

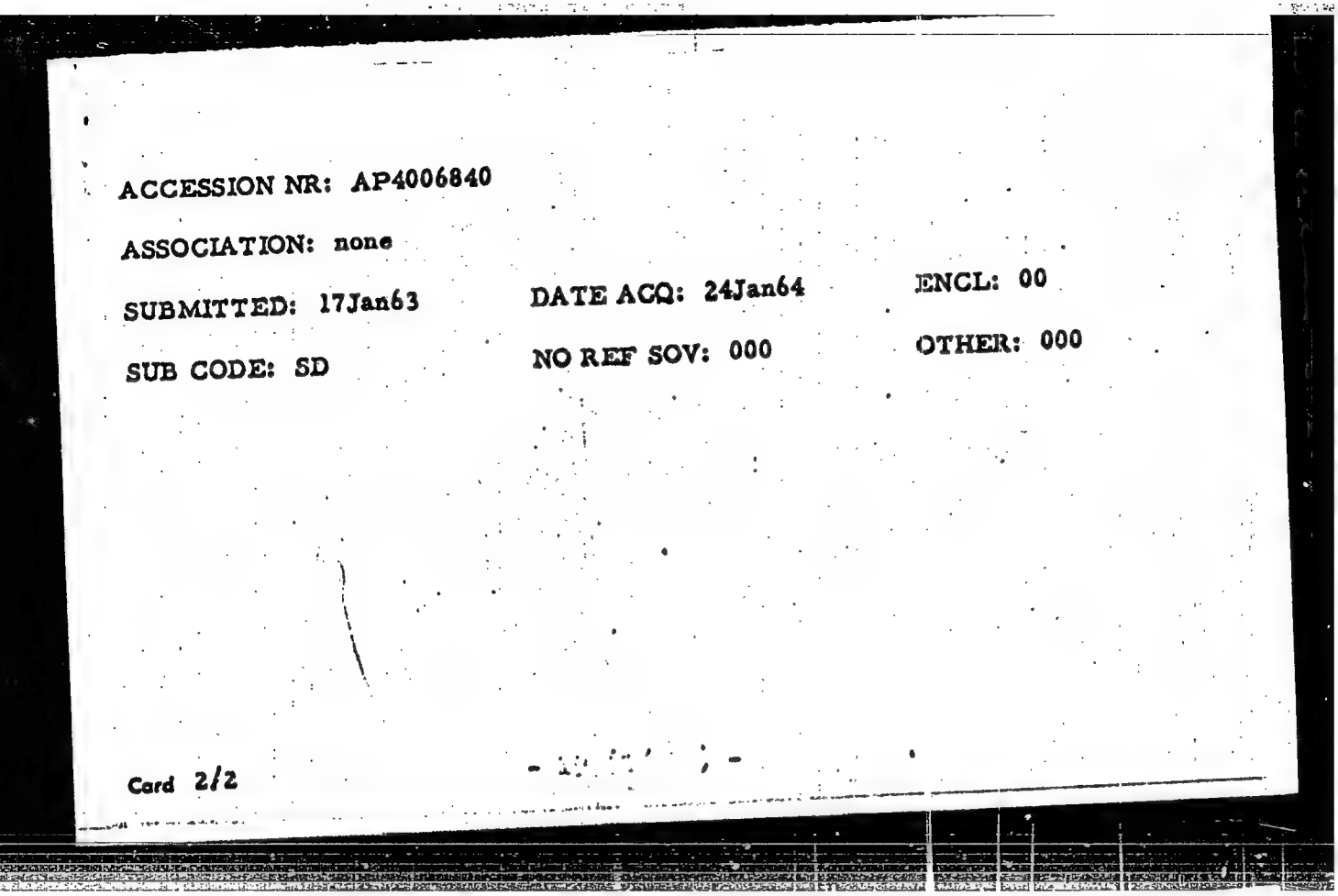
TITLE: A sensitive threshold device

SOURCE: Pribory* i tekhnika eksperimenta, no. 6, 1963, 175

TOPIC TAGS: sensitive threshold device, sensitive threshold circuit, threshold circuit, stable threshold circuit, threshold pickup

ABSTRACT: A sensitive triggering device is briefly described. It consists of a two-tube single-shot multivibrator with an operating threshold of from 2 to 200 mv, depending on the bias voltage used. Selected tube operating conditions and the use of a double diode key in the positive-feedback circuit are responsible for its high sensitivity. Means for stabilizing the bias voltage are provided. Orig. art. has: 1 figure.

Card 1/2



ACCESSION NR: AP4006840

ASSOCIATION: none

SUBMITTED: 17Jan63 DATE ACQ: 24Jan64 ENCL: 00

SUB CODE: SD NO REF SOV: 000 OTHER: 000

Card 2/2

S/2892/63/000/002/0179/0184

ACCESSION NR: AT4021269

AUTHOR: Doroshenko, G. G., Filyushkin, I. V., Fedorov, V. A.

TITLE: A separation device for a scintillation spectrometer of fast neutrons

SOURCE: Voprosy* dozimetrii i zashchity* ot izlucheniy, no. 2, 1963, 179-184

TOPIC TAGS: scintillation spectrometer, fast neutrons, γ quanta, time discrimination

ABSTRACT: The discovery of the fact that the form of a scintillation pulse in some organic phosphors depends on the type of exciting particle (Brooks, F. Nucl. Instrum., 4, no. 3, 151 (1959)) has made it possible to perform a separation of pulses from fast neutrons and γ quanta. This has enabled the authors to develop a highly efficient single crystal scintillation spectrometer, the schematic of which is presented in this paper. Oscillograms which explain the operation of the device are presented. The authors also present the results of measuring the threshold of separation and the spectrometric threshold of the separation device. The separation device operates normally until the "integral load" exceeds 4×10^3 pulses/sec. Within these limits, the efficiency of the separation device does not exceed 5×10^{-3}% in respect to γ radiation. Orig. art. has: 4 figures.

Card 1/2

ACCESSION NR: AT4021269

ASSOCIATION: Moskovskiy inzhenerno-fizicheskiy institut (Moscow Physics and Engineering Institute)

SUBMITTED: 00 DATE ACQ: 06Apr64 ENCL: 00

SUB CODE: SD, NS NO REF SOV: 002 OTHER: 004

Card 2/2

FEDOROV, V.A.

25(1) PHASE I BOOK EXPLOITATION SOV/3161

Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti, Kiyevskoye oblastnoye pravleniye

Zashchitno-dekorativnyye i spetsial'nyye pokrytiya metallov (Protective, Decorative, and Special Coatings for Metals) Kiyev, Mashgiz, 1959. 291 p. 4,200 copies printed.

Editorial Board: P. K. Lavorko, N. I. Litvak, and A. P. Rychis (Resp. Ed.); Ed. of Publishing House: M. S. Soroka; Chief Ed. (Southern Division, Mashgiz): V. K. Serdyuk, Engineer.

PURPOSE: This book is intended for technical personnel in the field of protective coatings for metals.

COVERAGE: The papers in this collection, presented at a conference of the NTO Mashprom held in Odessa, deal with the mechanization and acceleration of metal-coating and plating processes performed by spraying, electrolytic, and other methods. Quality control of protective coatings is also discussed. No personalities are mentioned. References follow several of the papers.

FEDOROV, V.A., inzh.

Shrinkage and swelling of lightweight concretes. Trudy NIIZHB no.32:158-170 '63. (MIRA 17:1)

FEDOROV, V.

Conference of workers from central laboratories of trusts of the Gas Industry of the U.S.S.R. Stroi. truboprov. 8 no.6: 38-39 Je '63. (MIRA 16:7)

(Pipelines—Design and construction)

FEDOROV, V., kand. tekhn. nauk; FEDOROVA, N., kand. tekhn. nauk

Foundations for heaving soil with the base laid in the stratum of seasonal freezing. Na stroi. Ros. 3 no.10:10-11 O '62. (MIRA 16:6)

(Russia, Northern--Foundations)

S/058/61/000/007/036/086
A001/A101

AUTHORS: Fedorov, V.A., Freyvert, S.I.

TITLE: Double-beam photoelectric fluorometer for quantitative determination of uranium

PERIODICAL: Referativnyy zhurnal. Fizika, no. 7, 1961, 170, abstract 7093 (V sb. "Metody lyuminestsentn. analiza". Minsk, AN BSRS, 1960, 27 - 31)

TEXT: The authors describe the design of a fluorometer for determination of small quantities of uranium using the fluorescence of beads made of sodium fluoride or carbonate-fluoride mixture. Measurements are performed by the zero method by comparing fluorescence intensities of the specimen tested and a glass standard using optical compensation. Determinable uranium concentration amounts to 10^{-8} -10^{-5}%, the efficiency of the instrument is 60 analyses per hour.

Yu. Mazurenko

[Abstracter's note: Complete translation]

Card 1/1 State Optical Inst. im S.I. Vavilov

L 17862-63 EWT(m)/BDS AFFTC/ASD S/0048/63/027/007/0949/0952

ACCESSION NR: AP3003704

54

AUTHOR: Doroshenko, G.G.; Filyushkin, I.V.; Fedorov, V.A. 19

TITLE: Amplitude-time discrimination of the gamma background in a scintillation spectrometer for fast neutrons /Report of the Thirteenth Annual Conference on Nuclear Spectroscopy held in Kiev from 25 January to 2 February 1963/

SOURCE: AN SSSR, Izv.Seriya fizicheskaya, v.27, no.7, 1963, 949-952

TOPIC TAGS: neutron detectors, organic scintillators, discrimination

ABSTRACT: The fact that the shape of the scintillation pulses in some organic phosphors depends on the nature of the exciting particle has made it feasible to discriminate the pulses due to background gamma-rays from pulses produced by fast neutrons thereby realizing a high-efficiency neutron detector. A good separating circuit must insure the lowest possible separation threshold and reliable cut-off of the gamma background, and allow of a high load (counting rate). Unfortunately, present separating circuits do not fully meet these requirements. Accordingly, a separating arrangement utilizing amplitude-time discrimination is proposed in the present paper. The arrangement is diagrammed in Fig.1 of the Enclosure; it con-

Card 1/3

L 17862-63
ACCESSION NR: AP3003704

sists of a separating circuit of the type designed by V.G.Borovchenko and G.V.Gorlov (Pribory i tekhnika eksperimenta, No.4, 49, 1961), a separating channel (I), a time-delay channel (II) and a coincidence circuit. Tests of the arrangement show that it operates satisfactorily up to an "internal load" of 4×10^3 pulses per sec; up to this point the detecting efficiency for gamma-radiation does not exceed 0.01%. Orig.art.has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 02Aug63 ENCL: 01

SUB CODE: SD, NS NO REF SOV: 003 OTHER: 004

Card: /3

SHIBER, Ruvim Abramovich; KRUGLYY, Georgiy Tikhonovich; BAZHOV, I.S., inzh., retsenzent; SAMOKHVALOV, S.F., inzh., retsenzent; FEDOROV, V.A., inzh., retsenzent; KRUPNOV, S.A., inzh., retsenzent; YESHCHIN, S.B., inzh., retsenzent; SARANTSEV, Yu.S., inzh., red.; KHIZHOVA, N.A., tekhn. red.

[Arrangement, maintenance and repair of cars] Ustroistvo i remont vagonov. Moskva, Transzheldorizdat, 1963. 395 p. (MIRA 17:2)

BATYSHEV, A.I.; FEDOROV, V.A.

Shrinkage of permanent molds in the process of their manufacture.
Lit. proizv. no.10:40 O '63. (MIRA 16:12)

MIRONOV, S.A., doktor tekhn. nauk, prof.; MALININA, L.A., kand. tekhn. nauk; FEDOROV, V.A., inzh.

Physicomechanical properties of concrete with compact and porous aggregates subjected to autoclave treatment. Trudy NIIZHB no.32:88-109 '63. (MIRA 17:1)

45148

S/076/63/037/002/018/018
B144/B180

5,3821

AUTHORS: Panchenkov, G. M., Tolmachev, A. M., Fedorov, V. A.

TITLE: Synthetic zeolites as ion exchangers. II. Study of the ion exchange equilibrium

PERIODICAL: Zhurnal fizicheskoy khimii, v. 37, no. 2, 1963, 456-459

TEXT: The equilibrium of the exchange of NH_4^+, Li^+, Na^+, Ca^{2+}, Pb^{2+} ions was studied on two samples of synthetic 4A zeolites at 20 ± 2°C. Based on the equation of R. M. Barrer and J. D. Falkoner (Proc. Roy. Soc., A236, 227, 1956), $\log K'_{th} = \log (M_{BX}M_{AZ}/M_{BZ}M_{AX}) + a(1 - 2M_{AZ})$ was derived for the 1,1-valent ion exchange and $\log K''_{th} = \log K + a\,(M_{AZ} - 1/2M_{BZ})/(M_{AZ} + 1/2M_{BZ})$ for the 1,2 ion exchange, where K_{th} are the thermodynamic equilibrium constants, M the concentration, B the univalent cation, X the univalent anion, A a cation of valency 1 or 2, and Z the zeolite. The second equation holds only for constant concentrations of the solution. These equations include the ratio of the

Card 1/2

S/076/63/037/002/018/018
B144/B180

Synthetic zeolites as ion ...

ion activities in solution and show that K'_{th} is independent of the concentration, whereas K''_{th} decreases significantly when the concentration increases. This was proved by the values calculated for the systems $CaCl_2$ + Li4A; $Pb(NO_3)_2$ + $NH_4$4A; $CaCl_2$ + Na4A. K_γ is highly dependent on the degree of exchange. It decreases when small ions are replaced by big ions or univalent by bivalent ions. The separating capacity of synthetic zeolites is 150-900% greater than that of ion exchange resins. There are 2 figures and 4 tables.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: April 21, 1962

Card 2/2

TOLMACHEV, A.M.; FEDOROV, V.A.; PANCHENKOV, G.M.

Synthetic zeolites as ion exchangers. Part 3. Zhur. fiz. khim. 37 no.11:2548-2550 N'63. (MIRA 17:2)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

MIRONOV, V.Ye.; FEDOROV, V.A.

Complex formation of lead (II) with alkali metal chlorides. Zhur. neorg. khim. 8 no.11:2529-2535 N '63. (MIRA 17:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra obshchey khimii.

MIRONOV, V.Ye.; KUL'BA, F.Ya.; FEDOROV, V.A.; TIKHOMIROV, O.B.

Effect of the anionic background on the formation of bromide complexes of bivalent lead. Zhur. neorg. khim. 8 no.11:2524-2528 N '63.

Effect of the anionic background on the formation of chloride and nitrate complexes of lead (II). Ibid.:2536-2540

(MIRA 17:1)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

MALININA, L.A., kand.tekhn.nauk; FEDOROV, V.A., inzh.

Deformations of concretes in the process of steaming and during further storage provided with air-drying. Izv.ASiA 4 no.1: 90-97 '62. (MIRA 15:11)

(Concrete)

MIRONOV, S.A., doktor tekhn. nauk, prof.; MALININA, L.A., kand. tekhn. nauk; FEDOROV, V.A., inzh.; KAYSER, L.A., inzh.; KRONGAUZ, S.D., kand. tekhn. nauk; PANFILOVA, L.I., kand. tekhn. nauk; SEMENOV, L.A., doktor tekhn. nauk, prof.; PODUROVSKIY, N.I., kand. tekhn. nauk; VINNITSKIY, A.M., kand. tekhn. nauk; KLIMOVA, G.D., red. izd-va; SHEVCHENKO, T.N., tekhn. red.

[Instructions on curing concrete and reinforced concrete products at plants and building sites]Instruktsiia po propariyaniiu betonnykh i zhelezobetonnykh izdelii na zavodakh i poligonakh. Moskva, Gosstroiizdat, 1962. 33 p. (MIRA 15:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut betona i zhelezobetona, Perovo. 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Mironov).
(Precast concrete--Curing) (Autoclaves)

VASIL'YEV, L. (g. Tyumen'); CHICHKO (g. Kiyev); STARODUB, D. (g. Kiyev); KALUZHSKIY, G. (g. L'vov); SMIRNOV, V.; SHENIN, A.; ORLOV, I.; PERUK, V. (Kuybyshev); BYCHININ, K. (Kuybyshev); MASHKO, V.; SHEVKUN, Yu. (Khar'kov); ISTYUFEYEV, V. (Leningrad); GATSANYUK, P. (Chernigovskaya obl.); SKURKO, L.; BABYUK, M.; GURANOV, L. (Krasnodar); TISHCHENKO, D. (st. V. Sadovaya); YEFIMOV, M.S. (Leningrad); FEDOROV, V.; SUKHOV, A.; TIMOSHENKO, I. (Omskaya oblast'); KRIVTSUN, B. (Khar'kov); BARANTSEV, N. (Fedosiya).

Exchange of experience. Radio no.1:31,32,35,39,40. Ja '59.. (MIRA 12:3)

(Radio)

6(4) SOV/107-59-2-19/55

AUTHOR: Fedorov, V.

TITLE: "Volga" ("Volga")

PERIODICAL: Radio, 1959, Nr 2, p 20 (USSR)

ABSTRACT: The basic parts of the radio-phonograph "Volga" (364x315x 150mm) are similar to those of the "Yubileynyy", except that an improved electric motor of the type EDG-2 is used. The 1-GD-9 loudspeaker is fixed on the rear side of the case. For the three stage amplifier tubes are used of the type 6N8S and 6P6S; to reduce nonlinear distortions of the second and third amplifier stage, a negative feedback is installed. The connection of an additional loudspeaker, the playback of records through the low frequency amplifier of the receiver and the switching-in of the

Card 1/2

phonograph loudspeaker into a rediffusion net is provided for. The weight of the radio-phonograph is about 6 kg. There is 1 circuit diagram.

FEDOROV, V., Geroy Sovetskogo Soyuza

Nine hundred days of a reconnaissance radio operator. Radio no.1:9-11 Ja '65. (MIRA 18:4)

FEDOROV, V., kand. biolog. nauk

Electronic training appliances. Radio no.11:6-7 N '65. (MIRA 18:12)

DUBOVENKO, A., inzh.; FEDOROV, V., inzh.; TURCHANNIKOV, I., inzh.; KIRZHNER, Yu., inzh.; OBUKHOV, N., inzh.; ANTONOVA, G., inzh.; ANTIPENKO, I., inzh.

An-2M. Grazhd. av. 22 no.12:11-14 D '65. (MIRA 18:12)

L 24308-66 EWT(d)/EWT(l)/EWT(m)/EWP(h) RO

ACC NR: AP6013420 SOURCE CODE: UR/0084/65/000/012/0011/0014

AUTHOR: Dubovenko, A. (Engineer); Fedorov, V. (Engineer); Turchannikov, I. (Engineer); Kirzhner, Yu. (Engineer); Obukhov, N. (Engineer); Antonova, G. (Engineer); Antipenko, I. (Engineer)

ORG: none

TITLE: An-2M agricultural aircraft

SOURCE: Grazhdanskaya aviatsiya, no. 12, 1965, 11-14

TOPIC TAGS: agricultural machinery, aircraft/ An-2M aircraft

ABSTRACT: A comprehensive composite article dealing with the extensive modifications made on the An-2 aircraft to develop a new agricultural aircraft, the An-2M, leads off with a detailed discussion of internal power-takeoff capabilities (mechanical and electrical) and agricultural-chemical capacities and dispersion characteristics. Mention is made of increased wing area, new front-landing-gear placement, new instrumentation, improved electrical equipment, a new propeller, and many other changes. Original (An-2) and replacement (An-2M) equipment is discussed in detail, along with cockpit conditioning equipment and characteristics. Chemical spraying and dispersion equipment is described in detail. Orig. art. has: 6 figures and 1 table. [LS]

SUB CODE: 01/ SUBM DATE: none

Card 1/1

ACC NR: AP6021568 (A) SOURCE CODE: UR/0416/66/000/003/0087/0087

AUTHOR: Fedorov, V. (Engineer, Lieutenant colonel)

ORG: None

TITLE: Unloading cross-bridge arrangement

SOURCE: Tyl i snabzheniye sovetskikh vooruzhennykh sil, no. 3, 1966, 87

TOPIC TAGS: railway transportation, railway equipment

ABSTRACT: The design of a special arrangement for bridging the space between a platform wagon and an end-loading ramp is described. It is used by a military unit at the Volga railway for loading and unloading of tanks, vehicles and other equipment. The arrangement is shown in the vertical and horizontal projections. It consists of two bridging metal tracks (650 mm wide, 1700 mm long) spaced at 1900 mm. Each track is fixed in the middle to a vertical support composed of two coupled 30-mm rods. For this purpose two end bushings with spiral springs are welded to each track to hold the rods. The springs assures a smooth passage of vehicles from the wagon to the ramp. Orig. art. has: one figure.

SUB CODE: 13, 15/ SUBM DATE: None

Card 1/1

TANEV, I.; VESELINOV, V.; KUNEVA, Zh.; NEYCHEVA, Ye.; MANOLOV, K.; SKORCHEVA, S.; FEDOROV, V.

Salmonella gallinarum-pullorum as pathogens of food poisoning in man. Zhur. mikrobiol., epid. i immun. 41 no.12:118-119 D '64. (MIRA 18:3)

1. Sofiyskiy meditsinskiy institut, I Sofiyskaya infektsionnaya bol'nitsa i Veterinarnyy institut, Sofiya, Bolgariya.

TOLMACHEV, A.M.; DENISOVA, L.V.; FEDOROV, V.A.; PANCHENKOV, G.M.

Elution-partition of alkali metal ions on a synthetic A-type zeolite. Vest. Mosk. un. Ser. 2 Khim. 19 no.2:20-22 Mr-Ap'64

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.

L 54030-65 EWT(m)
ACCESSION NR: AP5013524
UR/0076/65/039/005/1168/1170
543.544

AUTHOR: Tolmachev, A. M.; Fedorov, V. A.; Panchenkov, G. M.

TITLE: Relationship between HETP and ion mobility in ion-exchange chromatography

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 5, 1965, 1168-1170

TOPIC TAGS: ion exchange chromatography, ion mobility, frontal chromatography, elution chromatography, alkali metal ion

ABSTRACT: The height equivalent of a theoretical plate (HETP) for the exchange of various ion pairs was determined by elution chromatography. ... HETP increases from ... relationship was found between HETP and ion mobility ... A straight line is independent of the nature ...

$$U_x = m - nl_x,$$

where U_X is the mobility of the Me^+ ion, l_x is the HETP for the Me^+, and n and m

Card 1/2

L 54030-65

ACCESSION NR: AP5013524

are constants which depend on the conditions of the experiment. In this case n = 27.8, and m was equal to 116, 132, and 130, respectively, for elution with solutions of NH_4Cl, KCl, and NaCl. In general, since the ion mobilities are usually known, the above formula may be used for calculating the HETP of any ions of the same type if the constants n and m are known for the given experimental conditions (eluting ion, ion exchange resin, concentration and feed rate of eluting solution, etc.). A comparison of elution and frontal chromatographic experiments showed that [illegible] exists between (HETP)elution and (HETP)frontal. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosov (Moscow State University)

SUBMITTED: 17Mar64 ENCL: 00 SUB CODE: GC

NO REF SOV: 004 OTHER: 003

Card 2/2

KUL'BA, F.Ya.; MIRONOV, V.Ye.; FEDOROV, V.A.

Complex formation of monovalent thallium with alkali metal chlorides. Zhur. neorg. khim. 6 no.7:1586-1591 Jl '61. (MIRA 14:7)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra obshchey khimii.

(Thallium compounds) (Alkali metal chlorides)

FEDOROV, V.A.; MIRONOV, V.Ye.; KUL'BA, F.Ya.

Lutec chloride associated compounds. Zhur.neorg.khim. 7 no.11:2528-2533 N '62. (MIRA 15:12)
(Cobalt compounds)
(Coordination compounds)

MIRONOV, V.Ye.; FEDOROV, V.A.

Problem of the formation of luteo chloride associated compounds. Zhur.neorg.khim. 7 no.11:2524-2527 N '62. (MIRA 15:12)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

(Cobalt compounds)
(Coordination compounds)

MIRONOV, V.Ye.; LASTOCHKIN, Yu.V.; FEDOROV, V.A.

Effect of "outer-sphere" cations on the formation of mercury (II) chloride complexes. Zhur.neorg.khim. 7 no.10:2323-2325 O '62. (MIRA 15:10)

(Mercury compounds)

MIRONOV, V.Ye.; KUN'BA, F.Ya.; FEDOROV, V.A.

Effect of outer-sphere cations on the formation of nitrate complexes of lead (II). Zhur.neorg.khim. 8 no.5:1161-1164 My '63. (MIRA 16:5)

(Lead compounds) (Cations)

MIRONOV, V.Ye.; KUL'BA, F.Ya.; FEDOROV, V.A.; NIKITENKO, T.F.

Potentiometric study of the chloride complexes of bismuth. Zhur. neorg. khim. 8 no.8:1852-1856 Ag '63. (MIRA 16:8)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra neorganicheskoy khimii.
(Bismuth compounds) (Potentiometric analysis)

KUL'BA, F.Ya.; MIRNOV, V.Ye.; FEDOROV, V.A.; BAYEVSKIY, V.A.

Chloride complexes of univalent thallium. Zhur. neorg. khim. 8 no.8:1945-1949 Ag '63. (MIRA 16:8)

(Thallium compounds) (Chlorides)

MIRONOV, V.Ye.; FEDOROV, V.A.; NAZAROV, V.A.

Stability of chloride complexes of lead, bismuth, and cadmium.
Zhur.neorg.khim. 8 no.9:2109-2112 S '63. (MIRA 16:10)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

MIRONOV, V.Ye.; KUL'BA, F.Ya.; FEDOROV, V.A.; NIKITENKO, T.F.

Effect of alkali metal cations on the formation of chloride complexes of bismuth. Zhur. neorg. khim. 8 no.10:2318-2322 O '63. (MIRA 16:10)

1. Leningradskiy tekhnologicheskiy institut, kafedra obshchey khimii.

(Alkali metals) (Bismuth compounds)

MIRONOV, V. Ye.; KUL'BA, F. Ya.; FEDOROV, V.A.

Effect of cations of alkaline and alkaline earth metals on complex formation in aqueous solutions. Zhur. neorg. khim. 9 no.6:1487-1489 Je '63 (MIRA 17:8)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra obshchey khimii.

MIRONOV, V.Ye.; KUL'BA, F.Ya.; FEDOROV, V.A.; FEDOROVA, A.V.

Chloride complexes of bivalent lead. Zhur. neorg. khim. 9 no.9: 2138-2141 S '64. (MIRA 17:11)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra obshchey khimii.

L 31994-65 EWT(m)/EWA(m)/T ASD/ESD/RM

ACCESSION NR: AT5002302 S/0000/64/000/000/0093/0095

AUTHOR: Tolmachev, A. M.; Fedorov, V. A.; Panchenkov, G. M.

TITLE: Investigation of the ion exchange properties of A-type zeolites

SOURCE: AN SSSR. Institut fizicheskoy khimii. Issledovaniye svoystv ionoobmennykh materialov (Research on the properties of ion-exchange materials). Moscow, Izd-vo Nauka, 1964, 93-95

TOPIC TAGS: synthetic zeolite, type A zeolite, ion exchange resin, column chromatography, isotope separation

ABSTRACT: Li^+, Na^+, K^+, NH_4^+, Rb^+, Cs^+, Ag^+, Mg^{2+}, Sr^{2+}, Ba^{2+} and Cd^{2+} were [illegible] at 20 + 2C with A-type zeolite, an industrial [illegible]

ACCESSION NR: AT5002302

Mg^{2+} (40.5%), a maximum ion exchange of 83 - 92.6% was established for the other

zeolite sets with pores from 3.3 to 13 A, changing at intervals of 0.2 - 0.3 A, were pro-
[illegible] by ion exchange with various ions. Orig. art. has: 2 tables, 2 figures and
[illegible].

ASSOCIATION: None

SUBMITTED: 06Aug64	ENCL: 00	SUB CODE: IC
NO REF SOV: 008	OTHER: 002	

Card 2/2

MIRONOV, V.Ye.; KUL'BA, F.Ya.; FEDOROV, V.A.

Effect of temperature on the formation of the chloride complexes of lead (II). Zhur. neorg. khim. 9 no.7:1641-1644 Jl '64. (MIRA 17:9)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra obshchey khimii.

MIRONOV, V.Ye.; KUL'BA, F.Ya.; FEDOROV, V.A.

Interaction of lead(II) chloride complexes with alkaline metal salts. Zhur. neorg. khim. 10 no.6:1388-1392 Je '65.
(MIRA 18:6)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra obshchey khimii.

TOLMACHEV, A.M.; FEDOROV, V.A.

Study of ion exchange properties of X-type zeolites. Zhur. fiz. khim. 39 no.9:2259-2264 S '65. (MIRA 18:10)

1. Khimicheskiy fakul'tet, Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

L 36465-66 EWP(k)/EWP(h)/EWT(d)/EWT(m)/EWP(l)/EWP(v)/EWP(t)/ETI IJP(c) JD/HW 1

ACC NR: AP6021766 SOURCE CODE: UR/0413/66/000/012/0020/0021

INVENTOR: Yezerskiy, K. I.; Korovkin, D. B.; Karsanov, G. V.; Sigalov, Yu. M.; Fedorov, V. A.; Sautin, V. I. 40 B

ORG: none

TITLE: A press for heating and extrusion of metals and alloys in vacuum or a neutral medium. Class 7, No. 182665

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 20-21

TOPIC TAGS: metal extrusion, hot extrusion, vacuum extrusion, extrusion press, METAL PRESS, VACUUM CHAMBER

ABSTRACT: This Author Certificate introduces a press for heating and extrusion of metals and alloys in vacuum or a neutral medium. The press consists of a vacuum-tight working chamber containing a heating unit, mechanism for feeding ingots, and a container with a die and a dummy block. To improve the efficiency, the press is equipped with compartments for dies, dummy blocks and ingots, with mechanisms for mounting dies and dummy blocks into the container, and with a water-cooled receiving bunker with air lock, all located within the working chamber. The vacuum-tight working chamber is formed by the walls of the press. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 29Feb64/ ATD PRESS: 5040 [MS]

Card 1/1

UDC: 621.979:621.777.06-229.6

L 21411-66 EWT(m)/EWP(w)/EWP(v)/T/EWP(k)/ETC(m)-6 WW/EM/DJ

ACC NR: AP6009927 SOURCE CODE: UR/0413/66/000/004/0119/0120

INVENTOR: Arinushkin, L. S.; Abramovich, R. B.; Vaynbaum, I. F.; Dunov, V. I.; Mikhaylov, Yu. N.; Fedorov, V. A.; Fayzutdinov, N. Z.; Yanyshin, V. V.

ORG: none

TITLE: Aviation turbogenerator. Class 46, No. 179131

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 119-120

TOPIC TAGS: turbogenerator, gas turbine

ABSTRACT: The proposed turbogenerator contains a gas turbine, an electric generator,

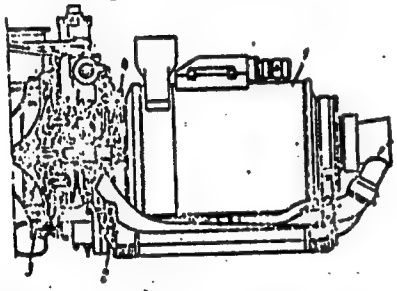


Fig. 1. Turbogenerator

1 - Electrogenerator; 2 - oil heat exchanger; 3 - fan; 4 - auxiliary fan; 5 - turbine disk.

UDC: 621.313.322-81:629.13

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L 21411-66
ACC NR: AP6009927

a speed regulator for the rotor, an oil system to lubricate and cool the rotor bearings, as well as an air cooling system with a centrifugal fan. To increase the service life of the turbogenerator, the oil system contains a heat exchanger through which cooling air is blown by an auxiliary centrifugal fan mounted on the turbine shaft. In variation of this turbogenerator, the air-cooling fan blades are located on the rear side of the turbine disk. The disk and blades are made in one piece (see Fig. 1). Orig. art. has: 1 figure.

[TN]

SUB CODE: 21/ SUBM DATE: 27Aug63/ ATD PRESS: 4221

Card 2/2 ULR

FEDOROV, V. A. (Honorary Veterinary Doctor of the Ukrainian SSR, Head of the Veterinary Department of the Kiev Oblast' Administration of Agriculture).

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Veterinariya vol. 38., no. 11., November 1961., p. 56

FEDOROV, V.

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YAKOBSON, P.V., kand.tekhn.nauk; FEDOROV, V.A., kand.tekhn.nauk;
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SEMIN, K.F., insh.; FEDOROV, V.A., kand.tekhn.nauk

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(Railroads--Tickets)